# Material Safety Data Sheet Samsung MLT-D208L - Muratec DKT3550

**Revised Date** Set Up Date October 23, 2008

### 1.CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**COMPANY**: Samsung Electronics Company

416, Maetan-3Dong, Yeongtong-Gu, Suwon-City, Gyeonggi-Do, Korea 443-742

TELEPHONE NO.: 82-31-200-8311

EMERGENCY TELEPHONE NO.: 82-31-200-8311

### 2.COMPOSITION / INFORMATION ON INGERDIENTS

SUBSTANCE OR PREPARATION : Preparation

**INGREDIENTS AND** 

**CONCENTRATION RANGE** 

Ingredients Concentration Range(%) CAS RN

Black toner

INGREDIENTS CONTRIBUTING TO : None

THE HAZARD(JAPAN)

#### 3. HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS

ADVERSE HUMAN HEALTH

**EFFECTS** 

: To the best of our investigation, no special hazards have to be

mentioned.

**ENVIRONMENTAL EFFECTS** 

PHYSICAL AND CHEMICAL

**HAZARDS** 

: To the best of our investigation, no information available.

: This material is not dangerous in case of usual handling.

May cause risk of dust explosion

CLASS NAME FOR MSDS IN

**JAPAN** 

: Not applicable

### 4.FIRST-AID MEASURES

IN CASE OF INHALATION

: Remove person to fresh air. If necessary seek medical attention.

IN CASE OF SKIN CONTACT

: Wash material off the skin with plenty of water and soap. If necessary

seek medical attention.

IN CASE OF EYE CONTACT

: Immediately hold eyelids open and flush with a stream of water for at

least 15 minutes. If necessary seek medical attention.

IN CASE OF INGESTION

: Seek medical attention. Never give anything by mouth to an unconscious person. If possible, rinse out mouth and give one or two glasses of water

or milk to drink.

#### 5.FIRE-FIGHTING MEASUARES

EXTINGUISHING MEDIA : Water spray, powder

NOT SUITABLE EXTINGUISHING : No information available

**MEDIA** 

SPECIFIC HAZARDS : May produce irritating or toxic gases in a fire.

SPECIFIC METHODS : Keep away from sources of ignition and use appropriate extinguishing

media. Fight fire from upwind position if possible.

PROTECTION OF FIREFIGHTERS : Use goggles in combination with dust mask, and another protections as

appropriate to situation.

### **6.ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS : Use mask, goggles and protective gloves.

Large spills: Remove person to safety.

Ensure adequate ventilation. Treat from upwind position.

**ENVIRONMENTAL PRECAUTIONS** 

: Do not discharge into the drains, surface waters or ground water directly.

METHODS FOR CLEANING UP

: Prevent dispersion of dust.

Sweep or vacuum by dust-explosion-proof type cleaner.

PREVENTION OF SECONDARY

**HAZARDS** 

: No information available

# 7.HANDLING AND STORAGE

HA NDLING

TECHNICAL MEASURES : Facilities storing or utilizing this material should be equipped with an

eyewash facility and a safety shower.

PRECAUTIONS : Avoid inhalation of fine dust .

SAFE HANDLING ADVICE : Handle in well-ventilated areas.

Use safety glasses and protective gloves as appropriate to situation.

Wash hands and face and gargle after handling.

Prevent generation of dust.

This material may cause risk of dust explosion.

**STORAGE** 

STORAGE CONDITIONS : Keep container tightly closed.

Protect from sun. Store in a well-ventilated room (under 40 C).

PACKAGING MATERIALS : No information available

# 8.EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING MEASURES : Facilities storing or utilizing this material should be equipped with an

eyewash facility and a safety shower.

Use an adequate ventilation.

Use local exhaust ventilation, in case of generation of dust.

LIM IT VALUES

ACGIH(TLV) : TWA 3.5mg/m3

Carbon black

TWA 2mg/m3(fume)

Paraffin wax

OSHA(PEL) : TWA 3.5mg/m3

Carbon black

PE RSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION : Use dust mask, as appropriate to situation.

HAND PROTECTION : Rubber gloves

EYE PROTECTION : Safety goggles with side shield(Safety goggles or Face shield)

SKIN AND BODY : Full-body suit

**PROTECTION** 

HYGIENE MEASURES : No information available

### 9.PHYSICAL AND CHEMICAL PROPERTIES

PH YSICAL STATES

FORM : Pulverizing powder

COLOUR : Black
ODOUR : Odourless

pH : No data available

SPECIFIC TEMPERATURES/TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR

BOILING POINT : No data available

MELTING POINT : No data available

DECOMPOSITION : No data available

TEMPERATURE

FLASH POINT : No data available AUTOIGNITION TEMPERATURE : No data available

**EX PLOSION PROPERTIES** 

EXPLOSION : UPPER LIMIT No data available LOWER LIMIT No data available

VAPOUR PRESSURE : No data available VAPOUR DENSITY : No data available

DENSITY : 1.2 g/mL ( 20.0°C ) ( 68°F )

SOLUBILITY

WATER SOLUBILITY : Insoluble

SOLVENT SOLUBILITY : Partially soluble in toluene, chloroform and tetrahydrofurane.

OCTANOL/WATER PARTITION : No data available

COEFFICIENT

OTHER DATA : No data available

### 10.REACTIVITY AND STABILITY

STABILITY : Stable in general.

HAZARDOUS REACTIONS : Stable.

CONDITIONS TO AVOID : No information available

MATERIALS TO AVOID : No information available

HAZARDOUS DECOMPOSITION : No information available

**PRODUCTS** 

OTHERS : No information available

#### 11.TOXICOLOGICAL INFORMATION

ACUTE TOXICITY : Oral, rat, LD50 : > 5000 mg/kg

LOCAL EFFECTS :

CORROSIVITY : No information available

SKIN IRRITATION : Rabbit, undiluted, 4 hour semi-occluded application (OECD404):

Not irritant (According to the criteria of EU)

EYE IRRITATION : Rabbit, undiluted, OECD405 : Not irritant (According to the criteria of EU)

: No information available

SENSITIZATION : Guinea pig, Guinea Pig Maximization Test : Negative

CHRONIC TOXICITY/LONG TERM

**TOXICITY** 

CARCINOGENICITY : No information available

IARC : Group2B : Possibly carcinogenic to humans

Carbon black

NTP : Not established
OSHA : Not established

MUTAGENICITY : Ames test (TA98,TA100,TA1535,TA1537,TA1538, WP2uvrA) : Negative

TERATOGENICITY : No information available
REPRODUCTION TOXICITY : No information available
OTHER DATA : No information available

### 12.ECOLOGICAL INFORMATION

MOBILITY : No information available PERSISTENCE/ : No information available

**DEGRADABILITY** 

BIOACCUMULATION : No information available

ECOTOXICITY :

AQUATIC TOXICITY : No information available
OTHER DATA : No information available

### 13.DISPOSAL CONSIDERATIONS

Review "HANDLING AND STORAGE (Section 7)".

Passed to a licensed waste contractor.

This product may cause risk of dust explosion.

Dispose of waste in accordance with local, state, and federal regulations.

Dispose of waste in accordance with local, state and federal regulations.

#### 14.TRANSPORTATION INFORMATION

Follow all regulations in your country or region

UN CLASS/UN NUMBER : Not applicable

PRECAUTIONS : Review "ACCIDENTAL RELEASE MEASURES (Section 6)".

Review "HANDLING AND STORAGE (Section 7)". Ensure containers without breakage or leakage.

Ensure containers tightly fixed.

Follow all regulations in your country or region.

### 15.REGULATORY INFORMATION

Follow all regulations in your country or region

INVENTORIES : ENCS(Japan) Yes

TSCA(USA) Yes

EINECS(EU) No(ELINCS)

AICS(Australia) Yes

DSL(Canada) No(NDSL)

ECL(Korea) Yes PICCS(Philippines) Yes

### **16.OTHER INFORMATION**

REFERENCE: -Safety data sheet for chemical products - Part 1: Content and order of

sections(ISO 11014-1)

-International Chemical Safety Cards(ICSC) (Compiler's Guide)(1994)

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